## Amendments to the Claims

1.-28. (canceled)

Please add the following claims.

29. (new) A method, comprising:

receiving, at a bridge device, a read request from an expansion device;

issuing a read request from the bridge device to a portion of a system memory predetermined to have descriptor addresses associated with the read request;

receiving descriptor blocks including descriptor data at the bridge device, wherein the descriptor data includes a transmit size, a location of the transmit data, and an address of the data to be transmitted;

storing the descriptor data in a memory on the bridge; transmitting the descriptor blocks to the expansion device;

receiving a read request for data associated with the descriptor blocks;

searching the memory for the descriptor addresses; and

if the descriptor addresses are located in the memory on the bridge, fetching the data requested and prefetching any remaining data to match the transmit size.

- 30. (new) The method of claim 29, wherein storing the descriptor data comprises storing the descriptor data in a hash table.
- 31. (new) The method of claim 30, wherein searching the memory further comprises searching the hash table using a read request address as a key.
- 32. (new) The method of claim 29, the method comprising prefetching the data by cacheline, if the descriptor addresses are not locating in the memory.

- 33. (new) The method of claim 29, wherein storing the descriptor data comprises: determining that the memory is full; discarding an oldest descriptor in the memory; and storing the descriptor in the memory.
- 34. (new) A processor having software that causes the processor to:

  receive, at a bridge device, a read request from an expansion device;

  issue a read request from the bridge device to a portion of a system memory

  predetermined to have descriptor addresses associated with the read request;

receive descriptor blocks including descriptor data at the bridge device, wherein the descriptor data includes a transmit size, a location of the transmit data, and an address of the data to be transmitted;

store the descriptor data in a memory on the bridge;
transmit the descriptor blocks to the expansion device;
receive a read request for data associated with the descriptor blocks;
search the memory for the descriptor addresses; and

if the descriptor addresses are located in the memory on the bridge, fetch the data requested and prefetching any remaining data to match the transmit size.

- 35. (new) The processor of claim 34, the software causing the processor to store the descriptor data comprises storing the descriptor data in a hash table.
- 36. (new) The processor of claim 34, the software causing the processor to search the memory further comprises searching the hash table using a read request address as a key.
- 37. (new) The processor of claim 34, the software causing the processor to prefetch the data by cacheline, if the descriptor addresses are not locating in the memory.

- 38. (new) A bridge device, comprising:
  - a first port to allow the device to communicate with other devices on an expansion bus;
  - a second port to allow the device to communicate with devices on a second bus;
  - a memory to store data; and
  - a processing element to:

receive, at a bridge device, a read request from an expansion device;

issue a read request from the bridge device to a portion of a system memory predetermined to have descriptor addresses associated with the read request;

receive descriptor blocks including descriptor data at the bridge device, wherein the descriptor data includes a transmit size, a location of the transmit data, and an address of the data to be transmitted;

store the descriptor data in a memory on the bridge;

transmit the descriptor blocks to the expansion device;

receive a read request for data associated with the descriptor blocks;

search the memory for the descriptor addresses; and

if the descriptor addresses are located in the memory on the bridge, fetch the data requested and prefetching any remaining data to match the transmit size.

- 39. (new) The device of claim 38, the processing element to store the descriptor data comprises storing the descriptor data in a hash table.
- 40. (new) The device of claim 38, the processing element to search the memory further comprises searching the hash table using a read request address as a key.
- 41. (new) The device of claim 38, the processing element to prefetch the data by cacheline, if the descriptor addresses are not locating in the memory.

## 42. (new) A bridge device, comprising:

a means for allowing the device to communicate with other devices on an expansion bus; a means for allowing the device to communicate with devices on a second bus; a means for storing data; and

a means for:

receiving, at a bridge device, a read request from an expansion device; issuing a read request from the bridge device to a portion of a system memory predetermined to have descriptor addresses associated with the read request;

receiving descriptor blocks including descriptor data at the bridge device, wherein the descriptor data includes a transmit size, a location of the transmit data, and an address of the data to be transmitted;

storing the descriptor data in a memory on the bridge;
transmitting the descriptor blocks to the expansion device;
receiving a read request for data associated with the descriptor blocks;
searching the memory for the descriptor addresses; and

if the descriptor addresses are located in the memory on the bridge, fetching the data requested and prefetching any remaining data to match the transmit size.